

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application.

1. (Currently amended) A method comprising:

~~forming receiving~~ a Web service message at sent from a first network entity via the Internet, the Web service message targeted ~~for~~ to invoke a remote procedure call of a mobile terminal that is configured as a network server and is not Internet addressable;

directing a request ~~via the Internet~~ to an Internet accessible locator arrangement to assist in processing the Web service message, wherein the locator arrangement is capable of identifying and locating mobile devices that are not Internet addressable;

sending the Web service message to the mobile terminal ~~utilizing~~ via the locator arrangement, ~~the Web service message sent to the mobile terminal~~ using a mobile services transport protocol; ~~and processing the~~, wherein the Web service message is processed at the mobile terminal to invoke the remote procedure call.

2. (Original) The method according to Claim 1, wherein the Web service message includes a Simple Object Access Protocol (SOAP) message.

3. (Original) The method according to Claim 1, wherein the mobile services transport protocol comprises a Hypertext Transfer Protocol (HTTP).

4. (Original) The method according to Claim 1, wherein the mobile services transport protocol comprises a Session Initiation Protocol (SIP).

5. (Original) The method according to Claim 1, wherein the mobile services transport protocol comprises a Simple Mail Transport Protocol (SMTP).

6. (Original) The method according to Claim 1, further comprising registering a web service of the mobile terminal with the locator arrangement.

7. (Original) The method according to Claim 6, wherein sending the Web service message to the mobile terminal utilizing the locator arrangement comprises determining an address of the mobile terminal based the registration of the mobile terminal with the locator arrangement.

8. (Original) The method according to Claim 1, wherein sending the Web service message to the mobile terminal utilizing the locator arrangement comprises determining an address of the mobile terminal based on an identifier of the mobile terminal included in the Web service message.

9. (Original) The method according to Claim 1, wherein sending the Web service message to the mobile terminal utilizing the locator arrangement comprises determining an address of the mobile terminal based on a Universal Resource Identifier (URI) associated with the locator arrangement.

10. (Cancelled)

11. (Currently amended) The method according to Claim 1[[0]], wherein sending the Web service message via the locator arrangement to the mobile terminal comprises initiating a session between the locator arrangement and the mobile terminal using a Wireless Application Protocol Over The Air Push.

12. (Original) The method according to Claim 1, wherein directing the request to the locator arrangement for processing the Web service message comprises requesting an address of the mobile terminal from the locator arrangement, and wherein sending the

Web service message to the mobile terminal utilizing the locator arrangement comprises sending the Web service message to the mobile terminal using the address of the mobile terminal provided from the locator arrangement.

13. (Currently amended) A system ~~for providing Web services from a mobile terminal that is not Internet addressable~~, comprising:

means for receiving a request for processing an Internet Web service[[s]] message via the Internet, the Web service message targeted ~~for the~~ to invoke a remote procedure call of a mobile terminal that is configured as a network server, wherein the mobile terminal is not Internet addressable;

means for identifying and determining a location of the mobile terminal based on the request;

means for sending the message to the mobile terminal using a mobile services transport protocol based on the location of the mobile terminal; and

means for processing the Web service request message at the mobile terminal.

14. (Original) The system according to Claim 13, wherein the Web service message includes a Simple Object Access Protocol (SOAP) message.

15. (Original) The system according to Claim 13, wherein the mobile services transport protocol comprises a Session Initiation Protocol (SIP).

16. (Original) The system according to claim 13, wherein the mobile services transport protocol comprises a Simple Mail Transport Protocol (SMTP).

17. (Original) The system according to claim 13, further comprising means for establishing a Wireless Application Protocol Over the Air Push session with the mobile terminal for sending the message to the mobile terminal.

18. (Original) The system according to Claim 13, further comprising:

means for forming a Web service response message at the mobile terminal in response to the Web service request message; and

means for transmitting the Web service response message from the mobile terminal using the mobile services transport protocol.

19. (Currently amended) A mobile terminal ~~wirelessly coupled to a network~~, comprising:

a transceiver configured to ~~facilitate~~ exchange of data with an Internet accessible locator arrangement via ~~the~~ a mobile network, wherein the mobile terminal is not Internet addressable;

a memory capable of storing at least one of a mobile services transport module and a Web services processing module that cause the mobile terminal to act as a network server; and

a processor coupled to the memory and the transceiver, the processor configured by the mobile services transport module to receive Web service messages targeted for the mobile terminal via the locator arrangement using a mobile services transport protocol, wherein the processor is further configured by the mobile services transport module and to communicate the Web service messages to the Web services processing module, and wherein the processor is configured by the Web services processing module to process invoke a remote procedure call of the mobile terminal in response to the Web service messages.

20. (Original) The mobile terminal according to Claim 19, wherein the Web service messages include Simple Object Access Protocol (SOAP) messages.

21. (Original) The mobile terminal according to Claim 19, wherein the mobile services transport protocol comprises a Session Initiation Protocol (SIP).

22. (Original) The mobile terminal according to Claim 19, wherein the mobile services transport protocol comprises a Simple Mail Transport Protocol (SMTP).

23. (Currently amended) A computer-readable medium having instructions stored thereon which are executable ~~by a for providing Web services on a mobile terminal that is not Internet addressable by performing to perform~~ steps comprising:

receiving a request from an Internet accessible locator arrangement to ~~establish a data session~~ invoke a remote procedure call of the mobile terminal using a mobile services transport protocol, wherein the request is received at the locator arrangement via the Internet, and wherein the mobile terminal is configured as a network server and is not Internet addressable;

initiating ~~the~~ a data session with the locator arrangement in response to the request;

receiving, via the data session, an incoming message formatted according to the mobile services transport protocol ~~from via the data session~~;

~~forming~~ determining a Web service message from the incoming message; and
processing the Web service message at the mobile terminal to invoke the remote procedure call.

24. (Original) The computer readable medium according to Claim 23, wherein the Web service message includes a Simple Object Access Protocol (SOAP) message.

25. (Original) The computer readable medium according to Claim 23, wherein the mobile services transport protocol comprises a Session Initiation Protocol (SIP).

26. (Original) The computer readable medium according to Claim 23, wherein the mobile services transport protocol comprises a Simple Mail Transport Protocol (SMTP).

27. (Original) The computer readable medium according to Claim 23, wherein the data session comprises a Wireless Application Protocol Over the Air Push session.

28. (Currently amended) ~~An apparatus server arrangement coupled to a network and configured to facilitate communications with a wireless terminal,~~ comprising:

means for receiving an Internet Web service message targeted ~~for the~~ to invoke a remote procedure call of a mobile wireless terminal via the Internet, wherein the ~~wireless mobile~~ terminal is configured as a network server and is not Internet addressable;

means for identifying and locating the mobile terminal based on the Web service message;

means for initiating a data session with the ~~wireless mobile~~ terminal via a mobile services transport protocol; and

means for sending the Web service message to the ~~wireless mobile~~ terminal[[s]] via the data session using [[a]]the mobile services transport protocol to invoke the remote procedure call of the mobile terminal selected from a plurality of mobile services transport protocols.

29. (Original) The ~~apparatus server arrangement~~ according to Claim 28, wherein the Web service message includes a Simple Object Access Protocol (SOAP) message.

30. (Original) The ~~apparatus server arrangement~~ according to Claim 28, wherein the mobile services transport protocol comprises a Session Initiation Protocol (SIP).

31. (Original) The ~~apparatus server arrangement~~ according to Claim 28, wherein the mobile services transport protocol comprises a Simple Mail Transport Protocol (SMTP).

32. (Original) The apparatus ~~server arrangement~~ according to Claim 28, wherein the data session comprises a Wireless Application Protocol Over the Air Push session.

33. (Currently amended) The apparatus ~~server arrangement~~ according to Claim 28, further comprising:

means for receiving a Web service response message from the ~~wireless~~ mobile terminal using the mobile services transport protocol; and

means for communicating the Web service response messages to an originator of the Web service message via the Internet ~~network~~.